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Combined selection of tile sizes and unroll factors using iterative compilation
T Kisuki, PMW Knijnenburg... - Parallel Architectures ..., 2002 - ieeexplore.ieee.org
... transformations evaluated so far and decides which trans- formations have to be applied next using a search **algorithm ...** MT1 **Compiler** TDL-Flies **...** We have imple- mented several search algorithms, including a **genetic** algo- rithm, simulated annealing, pyramid search, window **...**
Cited by 140 - Related articles - All 8 versions

Fast searches for effective optimization phase sequences
P Kulkarni, S Hines, J Hiser, D Whalley... - Proceedings of the ..., 2004 - portal.acm.org
... the percentage improvement that we obtained for the SPARC when **optimizing** for speed **...** The baseline measures were obtained using the batch VPO **compiler**, which iteratively **...** include additional optimization phases that were not previously exploited by the **genetic algorithm**. **...**
Cited by 76 - Related articles - BL Direct - All 4 versions

Compiler based exploration of DSP energy savings by SIMD operations [PDF] from york.ac.uk
M Lorenz, P Marwedel, T Dräger... - Proceedings of the ..., 2004 - portal.acm.org
... for an overview see eg [1]). However, to obtain an energy-efficient system, **optimizing** the software **...** In [12] we have published **compiler** optimization techniques with the aim of minimizing the **...** into the GeLIR-code and is then compacted by reusing the **genetic algorithm** driven code **...**
Cited by 21 - Related articles - All 24 versions

Iterative compilation
P Knijnenburg, T Kisuki... - Embedded processor design ..., 2002 - Springer
... We have implemented several search algorithms, including a **genetic algorithm**, simulated annealing, pyramid search, window search and random search. **...** Driver List of Transformations MT1 **Compiler** TDL−Files F77 **...** 3 **Benchmarks** and Platforms **...**
Cited by 21 - Related articles - BL Direct - All 6 versions

Optimization parameter selection by means of limited execution and **genetic** algorithms
Y Che, Z Wang... - Advanced Parallel Processing Technologies, 2003 - Springer
... Niclos G. Fournier.: Enhancement of an Evolutionary **Optimizing Compiler**, Ph.D Thesis **...** Shuvra S. Bhattacharyya.: A Joint Power/Performance Optimization **Algorithm** for Multiprocessor **...** et al.: Automatic parallel I/O performance optimization using **Genetic** Algorithms, Proceedings **...**
Cited by 6 - Related articles - BL Direct - All 4 versions

Combined selection of tile sizes and unroll factors using iterative compilation
PMW Knijnenburg, T Kisuki... - The Journal of ..., 2003 - Springer
... to optimization has been to have a human expert hand-**optimize** the application, a **... Genetic algorithm**: **Genetic** Algorithms are modeled on natural evolution processes and manipulate individuals in a **...** to the **target** architecture, we used the native Fortran77 or g77 **compiler** with full **...**
Cited by 10 - Related articles - BL Direct - All 5 versions

Adaptive java optimisation using instance-based learning
S Long... - Proceedings of the 18th annual international ..., 2004 - portal.acm.org
... Suppose, for program D in Fig- ure 1, the **algorithm** locates from its most similar **...** approach would be to initially allow an existing high level restructurer to **optimise** each new **...** technique described in this paper was imple- mented in a Java restructuring **compiler** and evaluated on **...**
Cited by 25 - Related articles - All 10 versions

Energy aware compilation for DSPs with SIMD instructions [PS] from tu-dortmund.de
M Lorenz, L Wehmeyer... - ... systems: software and **compilers** ..., 2002 - portal.acm.org
... and thus has an essential impact on the optimization progress of the **genetic algorithm**. **...** by 7%, whereas the number of memory accesses did not change for these **benchmarks**. **...** The growing use of DSPs in embedded systems necessitates **optimizing compilers** supporting special **...**
Cited by 27 - Related articles - BL Direct - All 20 versions

Phase coupled code generation for DSPs using a **genetic algorithm** [PDF] from date-conference.com
M Lorenz... - Proceedings of the conference on Design, ..., 2004 - portal.acm.org
... Table 1: **Benchmark** characteristics #CSE **benchmark** #CSEs uses CPU[s] cm complex multiply 4 8 19 **...** The growing use of DSPs in embedded systems necessitates **optimizing compilers** which are **...** In this paper we have presented a **genetic algorithm** driven code generator which **...**
Cited by 7 - Related articles - All 14 versions

Statistical selection of **compiler** options
RPJ Pinkers, PMW Knijnenburg... - ... , and Simulation of ..., 2004 - ieeexplore.ieee.org
... In Section 4, we propose our interactive **algorithm** for enabling options and in Section 5 we discuss our experi- mental framework. **...** In our case, columns correspond to **compiler** options and each row is a particular **compiler** setting that can be used to **optimize** a program. **...**
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Scholar Articles and patents ▾ anytime ▾ include citations ▾ ✉ Create email alert Results **1** - **10** of about **4,430**. (**0.06** sec)

[PDF] **Compiler** support of the workqueuing execution model for Intel SMP architectures [PDF] from caspur.it

E Su, X Tian, M Girkar, G Haab, S Shah... - European Workshop on ..., 2002 - caspur.it

... We also present preliminary performance results of a set of **benchmarks** and applications measured on **...** propagation, partial redundancy elimination (PRE) and partial dead store elimination (PDSE) • **Target**-specific optimizations **... Compiler** Support of the Workqueuing Execution **...**

Cited by 42 - Related articles - View as HTML - All 4 versions

Effectiveness of cross-**platform** optimizations for a Java just-in-time **compiler** [PDF] from ibm.com

K Ishizaki, M Takeuchi, K Kawachiya... - Proceedings of the ..., 2003 - portal.acm.org

... At the same time, it is desirable to **tune** the performance for the **target** architecture to **...** Finally, we perform code emission to generate the machine instructions for the **target** architecture in cooperation **...** Version 1.4.0. The threshold in the interpreter to initiate the JIT **compiler** was set **...**

Cited by 27 - Related articles - BL Direct - All 12 versions

[CITATION] A library-based **compiler** to execute MATLAB programs on a heterogeneous **platform**

A Nayak, M Haldar, A Kanhere, P Joisha... - Proceedings of the ..., 2000 - Citeseer

Cited by 8 - Related articles - All 2 versions

Flexware: a retargetable embedded-software development environment

PG Paulin... - IEEE Design and Test of Computers, 2002 - computer.org

... This flexible design has become the basis for a more recent MPEG4 codec **platform** that mobile applications use. **...** Finally, C **compiler** developers may use the tool to fine-**tune compiler** optimizations for the **target** architecture. **...**

Cited by 17 - Related articles - BL Direct - All 8 versions

NPCryptBench: a cryptographic **benchmark** suite for network processors [PDF] from cornell.edu

Y Yue, C Lin... - ACM SIGARCH Computer Architecture News, 2006 - portal.acm.org

... Finally, we propose several optimizations to **tune** the **benchmark**. **...** Section 4 and section 5 present **compile**-time and run- time characteristics of NPCryptBench on Intel **...** algorithms and describe rules that we follow when implementing the **benchmark** on a proposed **target platform**. **...**

Cited by 5 - Related articles - BL Direct - All 12 versions

Code size reduction by **compiler** tuning

M Haneda, P Knijnenburg... - Embedded Computer Systems: ..., 2006 - Springer

... In previous work, we have used so-called the main effect of **compiler** options to **tune** the **compiler ...** unswitch-loops 49 old-unroll-loops 50 branch-**target**-load-optimize 51 branch-**target**-load-optimize2 **...** No complex new transformations or other adaptation of the **compiler** are needed **...**

Cited by 4 - Related articles - BL Direct - All 3 versions

An evaluation of global address space languages: Co-Array Fortran and Unified Parallel C [PDF] from rice.edu

C Coarfa, Y Dotsenko, J Mellor-Crummey... - Proceedings of the ..., 2005 - portal.acm.org

... library called GASNet [2]. The GASNet library is optimized for a variety of **target** archi- tectures **...** options: -override limits -O3 -g -tpp2 2back-end **compiler** options: -fast -O5 -**tune** host -intrinsics 38 **...** IRIX64 V6.5, the MIPSpro **Compilers** V7.4 and the Berkeley UPC **compiler** V2.0.14 **...**

Cited by 50 - Related articles - All 20 versions

Co-array Fortran performance and potential: An NPB experimental study [PDF] from tamu.edu

C Coarfa, Y Dotsenko, J Eckhardt... - ... and **Compilers** for ..., 2004 - Springer

... Although the language provides shared-memory semantics, the **target** architecture may not. **...** On a hardware shared memory **platform**, the transformation is relatively straightfor- ward since **...** 3 was used along with the override-limits option to prevent the **compiler** from automatically **...**

Cited by 37 - Related articles - BL Direct - All 21 versions

Automatic **benchmark** generation for cache optimization of matrix operations [PS] from clemson.edu

J McCalpin... - Proceedings of the 33rd annual on ..., 1995 - portal.acm.org

... character- istics of the hardware and software, as well as to **tune compiler** heuristics and **...** may simply want to obtain the best possi- ble performance on each **target platform** with the **...** that were designed to provide automatic generation and execution of **benchmark** programs from **...**

Cited by 3 - Related articles - All 3 versions

Rapidly selecting good **compiler** optimizations using performance counters [PDF] from cmu.edu

J Cavazos, G Fursin, F Agakov... - ..., 2007. CGO'07. ..., 2007 - ieeexplore.ieee.org

... Using the model Given a new **target benchmark**, we first extract the perfor- mance counter features x by running the **benchmark**. This requires 3 runs of the **benchmark**. **...** These **benchmarks** are used by PathScale to **tune** their **compiler** suite. **...**

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Scholar [Articles and patents ▾] [anytime ▾] [include citations ▾] ✉ Create email alert Results **1** - **10** of about **34,100**. (**0.03** sec)

Parallel programming using skeleton functions [PDF] from ic.ac.uk
J Darlington, A Field, P Harrison, P Kelly... - PARLE'93 Parallel ..., 1993 - Springer
... These primitives provide a **platform** on which skeletons describing SIMD computations can be defined. **...** of the specification to take advantage of the particular characteristics of an **architecture** without compromising **...** J15] as the source language and using C as the **target** language **...**
Cited by 388 - Related articles - BL Direct - All 15 versions

Meta optimization: Improving **compiler** heuristics with machine learning [PDF] from colostate.edu
M Stephenson, S Amarasinghe, M Martin... - ACM SIGPLAN ..., 2003 - portal.acm.org
... The algorithm stops merging paths when it has consumed the **target** archi- tecture's estimated resources. **...** Trimaran is an integrated **compiler** and simulator for a pa- rameterized EPIC **architecture**. Table 3 details the **specific architecture** over which we evolved. **...**
Cited by 144 - Related articles - BL Direct - All 26 versions

Compiler optimization-space exploration [PDF] from iitp.org
S Triantafyllis, M Vachharajani... - ..., 2003. CGO 2003. ..., 2003 - ieeexplore.ieee.org
... iterative compilation works are limited to **specific** ar- chitectures, limited to **specific** optimizations, or **...** The Itanium proces- sor makes a good **target architecture** since explicitly parallel machines depend **...** Electron is among the best **compilers** for the Itanium **platform**, thus providing a **...**
Cited by 154 - Related articles - All 22 versions

Debugging system with portable debug environment-independent client and non-portable **platform-specific** server
LL You, N Rajgopal... - US Patent 5,815,653, 1998 - Google Patents
... DEBUGGING SYSTEM WITH PORTABLE DEBUG ENVIRONMENT-INDEPENDENT CLIENT AND NON-PORTABLE **PLATFORM- SPECIFIC** SERVER 5 **...** trans- lation process varies based on the **compiler** program itself, the processor **architecture**, the **target** runtime execution **...**
Cited by 71 - Related articles - All 2 versions

Address calculation for retargetable compilation and exploration of instruction-set architectures [PDF] from york.ac.uk
C Liem, P Paulin... - ... of the 33rd annual Design Automation ..., 1996 - portal.acm.org
... the **target** can be fed **...** Parallelization (compaction) is left for the back-end **architecture compiler**. **...** In our experience, these items are common in an embedded sys- tem development methodology, where firmware is simulated on a desk-top **platform** before being used in the field. **...**
Cited by 76 - Related articles - BL Direct - All 10 versions

The Chinook hardware/software co-synthesis system [PDF] from kfupm.edu.sa
PH Chou, RB Ortega... - Proceedings of the 8th ..., 1995 - portal.acm.org
... Chinook does not compile code to the **target** processor(s). It assumes not only the **...** heterogeneous as cost and modularity concerns drive designers to tailor processors to **specific** functions **...** We modeled this **architecture** with three handlers, one for the processor re- quests, one for **...**
Cited by 188 - Related articles - Library Search - All 16 versions

Statistical selection of **compiler options**
RPJ Pinkers, PMW Knijnenburg... - ..., and Simulation of ..., 2004 - ieeexplore.ieee.org
... is (almost) fully automatic and requires (almost) no knowledge about the **compiler** or the **target architecture**. **...** benchmarks when compiled with GCC 2.6.3 and ran on the SimpleScalar **platform**. **...** This shows that tuning **compiler** settings for a **specific** application can be worthwhile. **...**
Cited by 21 - Related articles - All 6 versions

Genetic programming applied to **compiler heuristic** optimization [PDF] from unb.br
M Stephenson, UM O'Reilly, M Martin... - Genetic ..., 2003 - Springer
... Page 6. Genetic Programming Applied to **Compiler Heuristic** Optimization 243 **...** Trimaran's **compiler**, which is called IMPACT, performs code profiling. Table 3 details the **specific architecture** over which we evolved. This model is similar to Intel's Itanium **architecture**. **...**
Cited by 22 - Related articles - BL Direct - All 12 versions

A machine learning approach to automatic production of **compiler** heuristics [PDF] from ucsb.edu
A Monsifrot, F Bodin... - Artificial Intelligence: Methodology, ..., 2002 - Springer
... revision, but also at new implementations of the **target** Instruction Set **Architecture**, a new **...** a learning process which adapts to new **target** architectures or new **compiler** features **...** an abstract loop representation we showed that decision trees that provide **target specific** heuristics for **...**
Cited by 32 - Related articles - BL Direct - All 11 versions

Automatic selection of **compiler options** using non-parametric inferential statistics
M Haneda, PMW Knijnenburg... - ..., 2005. PACT 2005. ..., 2005 - ieeexplore.ieee.org
... that the best opti- mization sequence depends on both the application as well as the **target architecture**. **...** to set back-end com- piler switches for any application and **architecture** automat- ically. **...** As is well known, each application requires its own **specific** setting of these **options** to **...**
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Adaptive optimizing **compilers** for the 21st century [PDF] from rice.edu
KD Cooper, D Subramanian... - The Journal of Supercomputing, 2001 - Springer
... particularly important codes, the user may want a version that limits its **training set** to that **...** versus compi- lation sequences; restricting the **set** of optimizations to a smaller **set** that has **...** computers—often have myriad flags that let a benchmarking specialist hand-**tune** the **compiler's** **...**
Cited by 148 - Related articles - BL Direct - All 15 versions

Predicting unroll factors using supervised classification [PDF] from mit.edu
M Stephenson... - Proceedings of the international ..., 2005 - portal.acm.org
... The task of a classifier is to learn how best to map loop characteristics (xi) to the observed labels (yi) using all the examples in the **training set**. While supervised learning is trained offline, the learned classifier can easily be incorporated into a **compiler**. 4.2. **...**
Cited by 70 - Related articles - All 19 versions

Rapidly selecting good **compiler** optimizations using performance counters [PDF] from cmu.edu
J Cavazos, G Fursin, F Agakov... - ... , 2007. CGO'07. ..., 2007 - ieeexplore.ieee.org
... values for which enabling the transforma- tion t i leads to improved performance in the **training set** and also **...** Note that gathering **training** data and construction of the model is an offline process, that is, it would **...** These benchmarks are used by PathScale to **tune** their **compiler** suite. **...**
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Meta optimization: improving **compiler** heuristics with machine learning [PDF] from colostate.edu
M Stephenson, S Amarasinghe, M Martin... - ACM SIGPLAN ..., 2003 - portal.acm.org
... more, by evolving a **compiler's** heuristic over several bench- marks, we can create effective, general-purpose heuristics. The best general-purpose heuristic our system found for hy- perblock formation improved performance by an average of 25% on our **training set**, and 9% on **...**
Cited by 144 - Related articles - BL Direct - All 26 versions

MILEPOST GCC: machine learning based research **compiler** [PDF] from inria.fr
G Fursin, C Miranda, O Temam, M Namolaru... - 2008 - hal.inria.fr
... Drivers for iterative compilation and model **training** **...** In an additional **set** of enhancements, a coherent event and data passing mechanism enables external plugins to discover the state of the **compiler** and **...** ML drivers to optimize programs and **tune compiler** optimization heuristic **...**
Cited by 24 - Related articles - All 23 versions

Genetic programming applied to **compiler** heuristic optimization [PDF] from unb.br
M Stephenson, UM O'Reilly, M Martin... - Genetic ..., 2003 - Springer
... our system found improves the predication al- gorithm by an average of 25% on our **training set**, and 9% on a com- pletely unrelated test **set**. **... Compiler** writers tediously fine-**tune** priority functions to achieve suitable performance [2]. Priority functions are widely used and tied to **...**
Cited by 22 - Related articles - BL Direct - All 12 versions

[CITATION] Sequential minimal optimization: A fast algorithm for **training** support vector machines [PDF] from microsoft.com
J Platt - 1998 - Citeseer
Cited by 353 - Related articles - All 38 versions

Automatic performance model construction for the fast software exploration of new hardware designs [PDF] from pascal-network.org
J Cavazos, C Dubach, F Agakov... - ... on **Compilers**, ..., 2006 - portal.acm.org
... impact of **compiler** optimizations on any new program. As a result, we can drastically reduce the overall simulation time necessary to evaluate tentative architectures and **tune** programs to **...** At first, it may be surprising that such a small **training set** size is sufficient to capture such a **...**
Cited by 33 - Related articles - All 33 versions

Using machine learning to focus iterative optimization [PDF] from pascal-network.org
F Agakov, E Bonilla, J Cavazos... - ... , 2006. CGO 2006. ..., 2006 - ieeexplore.ieee.org
... This approach is independent of search algorithm, search space or **compiler** infrastructure and scales gracefully with the **compiler** optimization space size. Off-line, a **training set** of programs is iteratively evaluated and the shape of the spaces and program features are modelled. **...**
Cited by 136 - Related articles - All 31 versions

Feature selection and policy optimization for distributed instruction placement using reinforcement learning [PDF] from utexas.edu
KE Coons, B Robatmili, ME Taylor... - Proceedings of the ..., 2008 - portal.acm.org
... across a va- riety of applications leave users with little ability to **tune** performance-critical **...** target for machine learning because the solution space is large and the **compiler** must make its **...** actually very good general solu- tions; the heuristics learned on a **training set** of benchmarks **...**
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A compiling genetic programming system that directly manipulates the machine **code**
P Nordin - Advances in genetic programming, 1994 - books.google.com
... These limitations reduce the **complexity** and thus execution time of the individual programs. **...** the **training set**, but that presumably had something in common with the examples in the **training set**. The machine **code** functions, the individuals in the population take a 32 bit integer as **...**
Cited by 211 - Related articles

Visual learning by evolutionary and coevolutionary feature synthesis [PDF] from psu.edu
K Krawiec… - Evolutionary Computation, IEEE …, 2007 - ieeexplore.ieee.org
... In this way, provides feedback to the search process and closes the learning **loop**. **...** The resulting vectors of features , computed for all images from the **training set** , are the basis for estimating the utility of for recognizing the objects from the **training** data . **...**
Cited by 73 - Related articles - BL Direct - All 19 versions

Hybrid engine for polymorphic shellcode detection [PDF] from shell-storm.org
U Payer, P Teufl… - Intrusion and Malware Detection and …, 2005 - Springer
... For the **training** process the Levenberg-Marquardt [10] back-propagation method was used. **...** aad, aam, aas, daa, das 12 jmp 27 clc, cld, cli, clts, clflush 13 inc, dec 28 cbw, cwd, cdq, cdwe 14 **loop**, loope, loopne **...** Further instructions from the X86 **set** were then added to the groups. **...**
Cited by 27 - Related articles - All 15 versions

Data mining static **code** attributes to learn defect predictors [PDF] from psu.edu
T Menzies, J Greenwald… - IEEE Transactions on Software …, 2007 - computer.org
... More formally,. $$P(H|E)={{P(H)}\over{P(E)}}\prod_iP(E_i|H); $$ ie, given **fragments** of evidence E_i and a **...** or "defect-free") is calculated, given the attributes extracted from a module such as the lines of **code**, the McCabe **...** A learner is then applied to a **training set** built from nin.
Cited by 203 - Related articles - BL Direct - All 18 versions

Tracking down software bugs using automatic anomaly detection [PDF] from psu.edu
S Hangal… - 2002 - computer.org
... 3: Sample **code** from multiprocessor simulator so because DIDUCE did not support disabling these checks as easily at that time, and the overhead was not a significant limitation. We **set** up DIDUCE to use the initial part of each simulation run for **training**, and ignored the **...**
Cited by 372 - Related articles - BL Direct - All 16 versions

[PDF] A map reduce framework for programming graphics processors [PDF] from psu.edu
B Catanzaro, N Sundaram… - Workshop on Software Tools for …, 2008 - Citeseer
... solver, which has many tight loops with relatively small Map Reduce computations in each **loop**. **...** Working **set** selection using second order information for **training** support vector machines. J. Mach. **...** Fast **training** of support vector machines using sequential minimal optimization. **...**
Cited by 13 - Related articles - View as HTML - All 17 versions

Protein **fragment** clustering and canonical local shapes
CG Hunter… - Proteins: Structure, Function, …, 2003 - interscience.wiley.com
... A variation on this process is to **loop** through the **fragments** several times, each time increasing the **...** PDB **code** Protein Fold class Resolution (A˚) Size (n) Mean cRMSD (Å) Max cRMSD (Å) **...** Therefore, the **training set** size is a limiting factor when building high- resolution basis sets **...**
Cited by 45 - Related articles - BL Direct - All 4 versions

Use of vector processing to search the Cambridge Structural Database
AHM Thiers, JH Noordik… - Journal of chemical …, 1990 - ACS Publications
... training set), 216-00-2; 27 (polycyclic **training set**), 195-00-6; 28 (polycyclic **training set**), 222-78 **...** op- timized program a significant part of the search time is spent outside our vectorized SCREENS **loop**. **...** The user interfacing to QUEST to **set** up the queries (on the VAX front-end) is **...**
Cited by 2 - Related articles - All 5 versions

Genetic graph programming for object detection
K Krawiec, P Lijewski - Artificial Intelligence and Soft Computing–ICAISC …, 2006 - Springer
... Only a few contributions [1,2,3,12,14,11,8,9] attempt to close the feedback **loop** of the learning process at the highest (eg, recognition) level, and test the proposed approach in a real-world setting. **... Training set** Testing **set** Average fitness over all runs 0.9770±0.0133 **...**
Cited by 1 - Related articles - BL Direct - All 2 versions

A meta-heuristic approach to parallel **code** generation [PDF] from psu.edu

B McCollum, PH Corr… - Proceedings of the 5th …, 2002 - portal.acm.org
... perceptron model to recommend a particular partitioning, selected from a restricted **set**, to apply **...**
Training the neural network requires a representative selection of loops, each of which must **...**
characteristics to the data partitioning which gives maximum speed up in **loop** execution. **...**
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Vectorizing **compilers**: A **test suite** and results
D Callahan, J Dongarra... - Proceedings of the 1988 ACM/ ..., 1988 - portal.acm.org
... All loops in the **test suite** consist of one or mom such statements. We define three possible results for a **compiler** attempting to vector& a **loop**. A **loop** is veczorized if the **compiler** generates vector instructions for all vectorixable statements in the **loop**. **...**
Cited by 58 - Related articles - Library Search - All 9 versions

SUIF: An infrastructure for research on parallelizing and optimizing **compilers** [PDF] from psu.edu
RP Wilson, RS French, CS Wilson... - ACM Sigplan ..., 1994 - portal.acm.org
... C and SUIF, and Michael Wolf for building the initial system as well as the **loop** transformation library. **...** We also want to thank John Ruttenberg for letting us use the Muttiflow **test suite**. The SUIF **compiler** project has been supported in part by DARPA contracts N00014-87-K-0828 **...**
Cited by 478 - Related articles - All 27 versions

[PDF] Parallel loops - a **test suite** for parallelizing **compilers**: description and example results [PDF] from psu.edu
J Dongarra, M Furtney, S Reinhardt... - Parallel Computing, 1991 - Citeseer
... 5. **Loop** Scoring Vendors were mailed a magnetic tape containing the Parallel Loops collection. **...** Thus, the use of **compiler** directives or interactive compilation features to gain additional parallelizations was **...** The objective of this **test suite** has been to provide a measure of system **...**
Cited by 14 - Related articles - View as HTML - All 55 versions

Idiom recognition in the Polaris parallelizing **compiler** [PDF] from psu.edu
B Pottenger... - ... of the 9th international conference on ..., 1995 - portal.acm.org
... Available **compilers** typically are able to substitute the induction variable in the inner **loop** only. **...** iteration of a **loop** [1 1]. There is one important case in our application **test suite** where the recognition of wrap-around **loop** bounds is a necessary precursor to the solution of an **...**
Cited by 68 - Related articles - All 24 versions

Timing variation in dual **loop** benchmark [PDF] from psu.edu
N Altman, N Weiderman - ACM SIGAda Ada Letters, 1988 - portal.acm.org
... In fact, thi s dual **loop** paradigm can be found in three commonly used benchmark suites, namely the Prototype Ad a **Compiler** Evaluation **test suite** [1], the Performance Issues Working Group (PIWG) **test suite** [5] develope d by a working group of the Association for Computing **...**
Cited by 21 - Related articles - Library Search - All 14 versions

The jastadd extensible java **compiler** [PDF] from ox.ac.uk
T Ekman... - Proceedings of the 22nd annual ACM SIGPLAN ..., 2007 - portal.acm.org
... with the language specification, actually passing a slightly higher number of tests in the Jacks **test suite** [jac07a] than **...** Our Java **compiler** follows this implementation scheme [EH06 **...** 4.3.1 The enhanced for **loop** Consider extending Java 1.4 with the enhanced for **loop** of Java 5: for **...**
Cited by 129 - Related articles - BL Direct - All 10 versions

A **Test Suite** Approach for Fortran90D **Compilers** on MIMD Distributed Memory Parallel Computers
MY Wu... - Scalable High Performance Computing ..., 2002 - ieeexplore.ieee.org
... An in- troductory example of Gaussian elimination is used, among other programs in our **test suite**, to explain the compilation techniques. **...** Arrays a and row are partitioned by **compiler** direc- tives. **...** An array operation in the FortrangOD program is sequen- tialized into a do **loop**. **...**
Cited by 10 - Related articles - All 2 versions

[BOOK] The SUIF **compiler** system: a parallelizing and optimizing research **compiler** [PDF] from stanford.edu
RP Wilson, R French, C Wilson, S Amarasinghe... - 1994 - db.stanford.edu
... C and SUIF, and Michael Wolf for building the initial system as well as the **loop** transformation library. **...** We also want to thank John Ruttenberg for letting us use the Multiflow **test suite**. The SUIF **compiler** project has been supported in part by DARPA contracts N00014-87-K-0828 **...**
Cited by 36 - Related articles - View as HTML - Library Search - All 10 versions

A comparison study of automatically vectorizing Fortran **compilers**
H Nobayashi... - ...'89. Proceedings of the 1989 ACM/ ..., 2009 - ieeexplore.ieee.org
... 1. Livermore Fortran Kernels (LFK) A well-known set of 24 Fortran **loop** kernels devel oped **...** 2. Argonne National Laboratory's **Test Suite** (ATS) [1] A set of 100 loops in four categories **...** Dependence Analysis: the ability of a **compiler** to perform global flow analysis and dependence **...**
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Evaluating OpenMP performance analysis tools with the APART **test suite** [PDF] from psu.edu
M Gerndt, B Mohr... - Euro-Par 2004 Parallel Processing, 2004 - Springer
... though outer **loop** has much more iterations insufficient work in parallel **loop**: **loop** overhead dominates **...** analysis tools have different thresholds/sensitivities, it is important that the **test suite** is parametrized **...** A **compiler** switch pmfunc directs the **compiler** to instrument user functions **...**
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Compiler-based prefetching for recursive data structures [PDF] from psu.edu
CK Luk, TC Mowry - ACM SIGOPS Operating Systems Review, 1996 - portal.acm.org
... If the RDS does **change** radically, the program will still behave correctly, but prefetching will not **...** we performed detailed cycle-by-cycle simulations of the entire Olden **benchmark** suite [17 **...** The Olden **bench- mark** suite contains ten pointer-**based** applications written in C, which are **...**
Cited by 375 - Related articles - BL Direct - All 29 versions

Evaluating iterative compilation [PDF] from psu.edu
GG Fursin, MFP O'Boyle... - Languages and **Compilers** ..., 2005 - Springer
... best program version is shown for three of the six different platforms across the three **benchmarks**. **...** Otherwise the current best version is retained and we see no **change** in execution time reduction **...** tion time) from the SPEC **benchmark** suite in order to find a good optimisation and **...**
Cited by 69 - Related articles - BL Direct - All 16 versions

Probabilistic source-level optimisation of embedded programs [PDF] from psu.edu
B Franke, M O'Boyle, J Thomson... - ... , **compilers**, and tools for ..., 2005 - portal.acm.org
... probability, but unlike the space exploring random search algorithm, probabilities can **change** over time **...** 5.2 **Benchmarks** We have chosen the UTDSP [15, 19] **benchmark** suite to evaluate **...** This set of **benchmarks** contains compute-intensive DSP kernels as well as applications **...**
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Adaptive java optimisation using instance-**based** learning [PDF] from psu.edu
S Long... - Proceedings of the 18th annual international ..., 2004 - portal.acm.org
... proach which evolves and adapts to applications and archi- tectural **change**, without sacrificing performance. **...** This means that for each **benchmark**, the system has previously seen and op- timised the other fifteen **benchmarks** which act as training examples. **...**
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[PDF] ISPW-6 software process example [PDF] from ucl.ac.uk
M Kellner, P Feiler, A Finkelstein, T Katayama... - 1991 - eprints.ucl.ac.uk
... The use of a standard **benchmark** problem facilitates comparisons of various modeling approaches. **... Modify** Unit Test Package 2.9.1. Description This step involves the modification of the **...** Subsequent iterations of this step may be **based** upon **feedback** from testing, indicating that **...**
Cited by 92 - Related articles - All 4 versions

A portable sampling-**based** profiler for Java virtual machines [PDF] from psu.edu
J Whaley - Proceedings of the ACM 2000 conference on Java ..., 2000 - portal.acm.org
... In this equation, ATo,e~an refers to the **change** in total run time, Tcompi~ refers to the amount of time it **...** of sam- pie profiling: It presents a detailed performance eval- uation of the overhead and accuracy of our sampling- **based** profiler on a variety of **benchmarks** and systems. **...**
Cited by 77 - Related articles - All 10 versions

[PDF] Feedback assisted iterative compilation [PDF] from psu.edu
MO'Boyle, PMW Knijnenburg... - Preprint, 2000 - Citeseer
... However, we can **change** this order dynamically. **...** For each **benchmark** and platform, we have used two agres- sive **compiler** optimization levels. **...** that Strategies 1 and 2 per- form about equally well: only small differences in speedup are found and across the **benchmarks** in some **...**
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A framework for reducing instruction scheduling overhead in dynamic **compilers**
V Tang, J Siu, A Vasilevskiy... - Proceedings of the 2006 ..., 2006 - portal.acm.org
... Register copies are required whenever a value kept in a register needs to be preserved for future use, but the current instruction will **change** the value in the register. **...** On the z990 processor, we used a **benchmark** very similar to SPECjvm98. **...** Page 6. 6 **Bench- mark** Rel. **...**
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A heuristic search algorithm **based** on unified transformation framework [PDF] from psu.edu
S Long... - Parallel Processing, 2005. ICPP 2005 ..., 2005 - ieeexplore.ieee.org
... Sixteen code segments were chosen from two widely- used **benchmark** suites, namely Java Grande Forum **...** For each **bench- mark**, the algorithm evaluated the first 100 points it reached in the **...** to represent this modification, and a set of primitives are used to **modify** the polyhedron **...**
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[PDF] Design and experience: Using the Intel Itanium2 processor performance monitoring unit to implement **feedback** optimizations [PDF] from usc.es
Y Choi, A Knies, G Vedaraman... - EPIC2 Workshop, 2002 - dec.usc.es
... although we have not fully investigated complete combinations or individual thresholds for each **benchmark**. **...** heuristics **change** the way the **compiler** schedules hot loads and their consumers, but **...** 3.3 Results Figure 9 shows results from SPEC CPU2000 integer **benchmarks**. **...**
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Adaptive java optimisation using instance-**based** learning [PDF] from psu.edu
S Long... - Proceedings of the 18th annual international ..., 2004 - portal.acm.org
... proach which evolves and adapts to applications and archi- tectural **change**, without sacrificing performance. **...** An alternative approach is to try many transformations on a **set** of suitably chosen programs or **training** examples. **...**
Cited by 25 - Related articles - All 10 versions

MILEPOST GCC: machine learning **based** research **compiler** [PDF] from inria.fr
G Fursin, C Miranda, O Temam, M Namolaru... - 2008 - hal.inria.fr
... To verify that we can **change** the default optimization pass orders using ICI, we recompiled the same bench- mark with the -O3 flag **...** Our approach to selecting good passes for programs is **based** upon the construction of a probabilistic model on a **set** of M **training** programs and **...**
Cited by 25 - Related articles - All 23 versions

Instruction **based** memory distance analysis and its application [PDF] from psu.edu
C Fang, S Carr, S Onder... - 2005 - computer.org
... and translate those changes into the cache effects for a large input without using that large input **set**. **...** because of the **change** in alignment of structures in a cache line with the **change** in data **...** conditions is not satisfied: (1) the instruction does not occur in at least one **training** run, (2 **...**
Cited by 24 - Related articles - Library Search - All 13 versions

Profile-**based** dynamic voltage and frequency scaling for a multiple clock domain microprocessor [PDF] from psu.edu
G Magklis, ML Scott, G Semeraro, DH Albonesi... - 2003 - computer.org
... The profiling-**based** cases were trained using the smaller input **set**. **...** The L+F and F mech- anisms, however, will always **change** frequencies when they encounter a node that was long-running in the **training** runs, even when they reach it over a different path. **...**
Cited by 117 - Related articles - BL Direct - All 31 versions

Midatasets: Creating the conditions for a more realistic evaluation of iterative optimization [PDF] from psu.edu
G Fursin, J Cavazos, MO'boyle... - ... Architectures and **Compilers**, 2007 - Springer
... and (3) evaluate iterative optimization under more "realistic" conditions where data sets **change** across executions. **...** Using a data **set** different from the one used for **training** causes some degradation **...** We use this data **set** suite to understand how iterative optimization behaves in a **...**
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Adaptive optimizing **compilers** for the 21st century [PDF] from psu.edu
KD Cooper, D Subramanian... - The Journal of Supercomputing, 2001 - Springer
... particularly important codes, the user may want a version that limits its **training set** to that **...** However, their model included a limited **set** of transformations that attacked a single problem—cache **...** Changing these parameters of the genetic algorithm do **change** its behavior, but do not **...**
Cited by 148 - Related articles - BL Direct - All 15 versions

[PDF] Reuse-distance-**based** miss-rate prediction on a per instruction basis [PDF] from psu.edu
C Fang, S Carr, S Onder... - Proceedings of the first ACM SIGPLAN ..., 2004 - Citeseer
... to predict the miss rate of the same program run on the reference input data **set**. **...** In 189.lucas, approximately 31% of the memory operations do not appear in both **training** runs **...** These extra instructions **change** the reuse distance because differ- ent memory locations are accessed **...**
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Evaluating iterative compilation [PDF] from psu.edu
GG Fursin, MFP O'Boyle... - Languages and **Compilers** ..., 2005 - Springer
... What is re- quired is an approach which evolves and adapts to architectural **change** without sacrificing **...** The Compaq **compiler** with the optimisation level **set** to -O5 becomes a high level restructurer which **...** This is followed by an evaluation of the use of smaller **training** data as a **...**
Cited by 69 - Related articles - BL Direct - All 16 versions

[PDF] Neural network-**based** diesel engine emissions prediction using in-cylinder combustion pressure [PDF] from atkinsonllc.com
ML Traver, RJ Atkinson... - SAE transactions, 1999 - atkinsonllc.com
... a **change** in exhaust emis- sions and when the analyzers respond to that **change**, the network is **...** HC and CO have proven far more elusive in finding a **set** of input parameters that **...** may partially be due to switching acquisi- tion systems between the gathering of the **training** and the **...**
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Compiler-Directed Cache Line Size Adaptivity [PDF] from psu.edu
D Nicolaescu, X Ji, A Veidenbaum... - Intelligent Memory ..., 2001 - Springer
... We used profiling to determine the best cache line size for each loop, we run the benchmarks using the **training** input **set**, determined for each **...** the minimum miss rate and used that data to run the benchmarks using a **compiler** generated instruction to **change** the cache line **...**
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1 Genetic programming applied to compiler heuristic optimization
Mark Stephenson, Una-May O'Reilly, Martin C. Martin, Saman Amarasinghe
April 2003 **EuroGP'03:** Proceedings of the 6th European conference on Genetic programming
Publisher: Springer-Verlag
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Genetic programming (GP) has a natural niche in the optimization of small but high payoff software heur
We use GP to optimize the priority functions associated with two well known compiler heuristics: predica
hyperblock formation, and register ...

2 Proceedings of the 10th annual conference on Genetic and evolutionary computation
Conor Ryan, Maarten Keijzer
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Publisher: ACM
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3 Proceedings of the 2008 GECCO conference companion on Genetic and evolutionary computatior
Conor Ryan, Maarten Keijzer
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maintains an impressive record of both ...

4 Finding representative workloads for computer system design
Jan Lodewijk Bonebakker
March 2007 Finding representative workloads for computer system design
Publisher: Sun Microsystems, Inc.
Full text available: Pdf (3.72 MB)
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This work explores how improved workload characterization can be used for a better selection of represe
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modern computer systems provide ...

5 VISTA: VPO interactive system for tuning applications
Prasad Kulkarni, Wankang Zhao, Stephen Hines, David Whalley, Xin Yuan, Robert van Engelen, Kyle Galliva
Hiser, Jack Davidson, Baosheng Cai, Mark Bailey, Hwashin Moon, Kyunghwan Cho, Yunheung Paek
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1 Meta optimization: improving compiler heuristics with machine learning
Mark Stephenson, Saman Amarasinghe, Martin Martin, Una-May O'Reilly
June 2003 **PLDI '03:** Proceedings of the ACM SIGPLAN 2003 conference on Programming language desig implementation
Publisher: ACM Request Permissions
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Compiler writers have crafted many heuristics over the years to approximately solve NP-hard problems e Finding a heuristic that performs well on a broad range of applications is a tedious and difficult process. introduces Meta Optimization, ...

Keywords: compiler heuristics, genetic programming, machine learning, priority functions

Also published in:
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2 Genetic programming applied to compiler heuristic optimization
Mark Stephenson, Una-May O'Reilly, Martin C. Martin, Saman Amarasinghe
April 2003 **EuroGP'03:** Proceedings of the 6th European conference on Genetic programming
Publisher: Springer-Verlag
Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation

Genetic programming (GP) has a natural niche in the optimization of small but high payoff software heur use GP to optimize the priority functions associated with two well known compiler heuristics: predicated formation, and register ...

3 Evidence-based static branch prediction using machine learning
Brad Calder, Dirk Grunwald, Michael Jones, Donald Lindsay, James Martin, Michael Mozer, Benjamin Zorn
January 1997 **Transactions on Programming Languages and Systems (TOPLAS)** , Volume 19 I
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Correctly predicting the direction that branches will take is increasingly important in today's wide-issue c architectures. The name program-based branch prediction is given to static branch prediction techniques their ...

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4 Collective optimization: A practical collaborative approach
Grigori Fursin, Olivier Temam
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1 Evidence-based static branch prediction using machine learning
Brad Calder, Dirk Grunwald, Michael Jones, Donald Lindsay, James Martin, Michael Mozer, Benjamin Zorn
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Publisher: ACM Request Permissions
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Correctly predicting the direction that branches will take is increasingly important in today's wide-issue c architectures. The name program-based branch prediction is given to static branch prediction techniques their ...

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2 Collective optimization: A practical collaborative approach
Grigori Fursin, Olivier Temam
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Keywords: Collective optimization, adaptive compiler, collective optimization database, continuous optii function cloning, iterative compilation, multiple datasets, program characterization, program reaction to runtime adaptation, self-tuning computing systems, statistical optimization

3 Automatic performance model construction for the fast software exploration of new hardware desic
John Cavazos, Christophe Dubach, Felix Agakov, Edwin Bonilla, Michael F. P. O'Boyle, Grigori Fursin, Olivier
October 2006 **CASES '06:** Proceedings of the 2006 international conference on Compilers, architecture and for embedded systems
Publisher: ACM
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Developing an optimizing compiler for a newly proposed architecture is extremely difficult when there is simulator of the machine available. Designing such a compiler requires running many experiments in orc understand how different optimizations ...

Keywords: architecture, artificial neural networks, compiler optimization, machine learning, performanc

4 Value-based clock gating and operation packing: dynamic strategies for improving processor powe performance
David Brooks, Margaret Martonosi
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Triantafyllis, S.; Vachharajani, M.; Vachharajani, N.; August,
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Digital Object Identifier: 10.1109/CGO.2003.1191546
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Chen, C.; Chame, J.; Hall, M.;
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Automatic selection of GCC optimization options using a gene weighted genetic algorithm

San-Chih Lin; Chi-Kuang Chang; Nai-Wei Lin;
Computer Systems Architecture Conference, 2008. ACSAC
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Chame, J.; Chun Chen; Diniz, P.; Hall, M.; Yoon-Ju Lee; Lucas,
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Scheduling Tasks with Resource Requirements in Hard Real-Time Systems

Wei Zhao; Ramamritham, K.; Stankovic, J.A.;
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Annotation-based empirical performance tuning using Orio

Hartono, A.; Norris, B.; Sadayappan, P.;
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Heuristic tradeoffs between latency and energy consumption in register assignment

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Publication Year: 2000 , Page(s): 115 - 119

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Unroll-and-jam using uniformly generated sets

Carr, S.; Yiping Guan,
Microarchitecture, 1997. Proceedings., Thirtieth Annual
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Woodyard, J.M.; Reif, D.C.;
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Kimura, K ; Kodaka, T.; Obata, M.; Kasahara, H.;
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